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## MONROE COUNTY

### (Monroe County Water Service Area Map)

- Estimated 1999 population of 10,900--95% on public water
- Estimated 2020 population of 9,700-- 100% on public water
- 330 miles of water lines, with plans for 13 additional miles
- Estimated funding needs for public water 2000-2005--\$1,208,000
- Estimated funding needs for public water 2006-2020--\$1,038,000

Monroe County had an estimated population of 10,946 (4,580 households) in 1999 with a projected population of 9,675 (4,272 households) in 2020. Nearly 100 percent of Monroe County residents are served. Those who are not served either do not want to be served or say it is too expensive to extend pipes to their homes. There are only a few households that are not connected to any of the water systems. Based on population projections, there may not be a need to expand the capacity of the water system in the future. The three water districts may be supplying water to 1,500 fewer people than the current number, which they are supplying. In case this trend is not true, Monroe County has a plan to acquire additional water from the Cumberland River in the event of a major drought or an increase in demanded water. 70% of those not on public water rely on private wells. About 100 new households will be placed on public water through line extensions in 2000-2020.

#### *Estimated Costs - Proposed Projects, 2000-2005*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
MONROE	.							0
CITY OF TOMPKINSVILLE				375			375	750
FOUNTAIN RUN W/D	0.5	65	24					24
MONROE COUNTY W/D	12.7	34	434					434
MONROE COUNTY TOTAL	13.2	99	458	375			375	1,208

#### *Estimated Costs - Proposed Projects, 2006-2020*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
MONROE								
FOUNTAIN RUN W/D				38				38
MONROE COUNTY W/D					1,000			1,000
MONROE COUNTY TOTAL				38	1,000			1,038

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# WATER SERVICE AREAS

## MONROE COUNTY

### Kentucky

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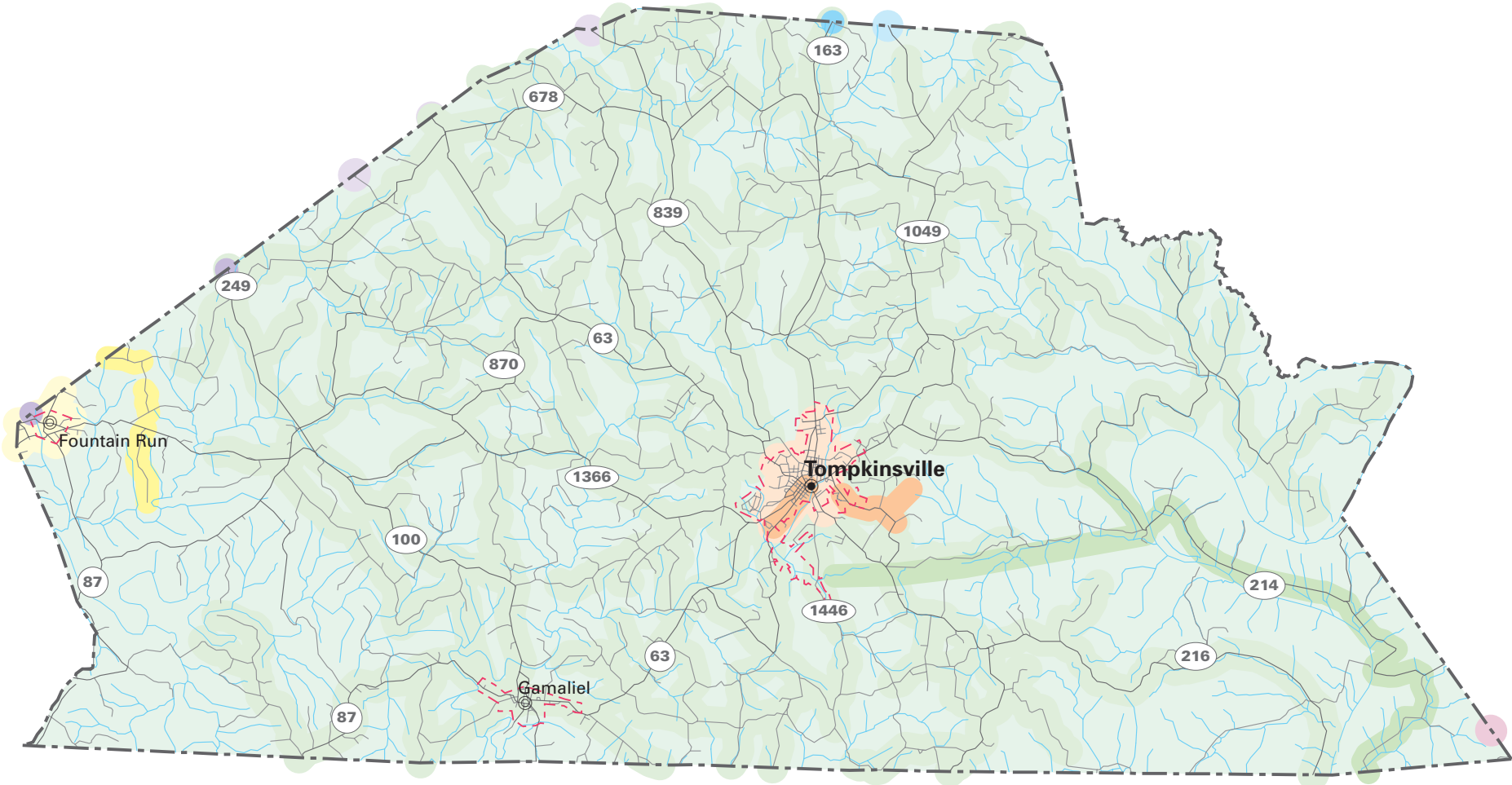
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WATER SERVICE STATUS BY OWNER		
EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		TOMPKINSVILLE WATER WORKS
		MONROE COUNTY WATER DISTRICT
		GLASGOW WATER COMPANY
		FOUNTAIN RUN WATER DISTRICT #1
		EDMONTON WATER WORKS
		CUMBERLAND COUNTY WATER DISTRICT

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## PUBLIC WATER SYSTEMS

Three water districts currently supply water to the residents of Monroe County: Monroe County Water District, which serves a majority of the rural portions of the county; the Fountain Run Water District, which serves the Fountain Run community, and the southwestern portion of the county; and Tompkinsville Water Works, which serves the City of Tompkinsville.

### **MONROE COUNTY WATER DISTRICT**

PWSID: ..... 0860150  
System Type: ..... COMMUNITY  
Owner Type: ..... WATER DISTRICT  
Surface Source:  
Purchase Source: ..... CITY OF TOMPKINSVILLE  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 0.00  
Percent Daily Average Production: ..... 0.00  
Total Tank Storage Capacity (gallons): ..... 810,000.00  
Total Service Connections: ..... 2,405.00  
Number of Employees: ..... 8.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons: ..... 5.41  
O/M costs 1997: ..... 431,790.00  
O/M costs per Service Connection: ..... 184.53  
Net Revenue 1997: ..... 5,506.00  
Total Water Produced 1997 (gallons): ..... 0.00  
Water Sold 1997 (gallons): ..... 129,309,000.00  
Unaccounted-for Water 1997 (%): ..... 3.80

The Monroe County Water District purchases all of its water from Tompkinsville Water Works. This water comes from the Tompkinsville City Lake, which is considered an adequate supply of raw water through 2015. They currently serve 2,347 residential customers and 58 commercial customers. The district is currently purchasing approximately 350,000 gallons per day. The District's storage system consists of seven tanks. The total storage capacity is 810,000 gallons. The base rate for water is \$27.07 for 5,000 gallons. Monroe County Water District has eight employees, of whom, one is certified to operate the distribution system.

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To meet current and future needs of the county, projects have been selected and ranked by Monroe County Water District representatives, elected officials and the Barren River ADD's Board of Directors as being crucial to the future growth and development of Monroe County.

**FOUNTAIN RUN WATER DISTRICT #1**

PWSID: ..... 0860141  
System Type: ..... COMMUNITY  
Owner Type: ..... WATER DISTRICT  
Surface Source:  
Purchase Source: ..... GLASGOW WATER COMPANY  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 0.00  
Percent Daily Average Production: ..... 0.00  
Total Tank Storage Capacity (gallons): ..... 100,000.00  
Total Service Connections: ..... 450.00  
Number of Employees: ..... 4.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons: ..... 4.12  
O/M costs 1997: ..... 66,810.00  
O/M costs per Service Connection: ..... 148.47  
Net Revenue 1997: ..... 52.00  
Total Water Produced 1997 (gallons): ..... 0.00  
Water Sold 1997 (gallons): ..... 21,082,700.00  
Unaccounted-for Water 1997 (%): ..... 12.14

The Fountain Run Water District purchases all of its water from the Glasgow Water Company. This water comes from the Barren River Reservoir, which is considered an adequate supply of raw water through 2015. They currently serve 423 residential customers, 25 commercial customers, and two industrial customers in western Monroe County and a limited number of customers in Allen and Barren County. The district currently purchases approximately 70,000 gallons per day. The District storage system consists of one tank with a storage capacity of 100,000 gallons. The base rate for water is \$20.60 for 5,000 gallons. Fountain Run Water District has four employees, of whom, one is certified to operate the distribution system.

The Fountain Run Water District is planning on expanding lines in all three counties. To meet current and future needs of the county, projects have been selected and ranked by Fountain Run Water District representatives, elected officials and the Barren River ADD's Board of Directors as being crucial to the future growth and development of Barren County.

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### **TOMPKINSVILLE WATER WORKS**

PWSID: ..... 0860426  
System Type: ..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source: ..... TOMPKINSVILLE WATER  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 1.50  
Percent Daily Average Production: ..... 70.00  
Total Tank Storage Capacity (gallons): ..... 700,000.00  
Total Service Connections: ..... 1,324.00  
Number of Employees: ..... 7.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class: ..... 3A  
Customer Rate for 1,000 Gallons: ..... 2.86  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

The Tompkinsville Water Works pumps its water from the Tompkinsville City Lake, which is considered an adequate supply of raw water through 2015. They currently serve 1,071 residential customers, 202 commercial customers, and 48 institutional customers. The water plant can produce 1.5 million gallons per day. On an average day the plant produces about 1.0 million gallons. The Water Works storage system consists of one tank and a clear well. The total storage capacity is 700,000 gallons. The base rate for water is \$14.28 for 5,000 gallons. Tompkinsville Water Works has seven employees, of whom, one is certified to operate the water treatment plant and two are currently receiving their certification. One employee is certified to operate the distribution system.

The Tompkinsville Water Works is only concerned with serving customers within the Tompkinsville city limits. There are only a few households that are not connected to the water system. The major concern is preparing for any residential or industrial growth that may occur in the future. To meet current and future needs of the county, projects have been selected and ranked by Edmonton Water Works representatives, elected officials and the Barren River ADD's Board of Directors as being crucial to the future growth and development of Barren County.

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## **PRIVATE DOMESTIC SYSTEMS**

About 550 people in Monroe County rely on private domestic water supplies: 400 on wells and 150 on other sources.

In the north-west and north-central area of Metcalfe County more than three-quarters of the drilled wells in the uplands are adequate for a domestic supply. Yields as high as 50 gpm have been reported from wells penetrating large solution channels. In the southern third of the county and along the low-lying areas in the East and South Fork of the Little Barren River, only a few wells yield enough water for a domestic supply.

Numerous springs with flows ranging from a few gallons per minute to 5,000 gpm are found in the county. Minimum flow generally occurs in early fall, maximum flows in late winter.

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